Applicants:

Betty A. Diamond and Bruce T. Volpe

Appn. No. :

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Amendments to the Claims:

Please cancel Claims 24, 49, 50, 52 and 53 without prejudice or disclaimer, amend Claims 23, 46, 48 and 51, re-number the second occurrence of Claim "53," and add new Claims 56-57 as set forth below.

1-22. (Canceled)

23. (Currently amended) A method of inhibiting progression of cognitive dysfunction in a mammal <u>diagnosed as</u> exhibiting or <u>as being</u> at risk for lupus-induced cognitive dysfunction, the method comprising treating the mammal with an agent that prevents binding of an anti-ds-DNA antibody to an NR2 subunit of an <u>N-methyl-D-aspartate</u> (NMDA) receptor of a neuron, <u>wherein the agent comprises amino acid sequence X1-Trp-X1-Tyr-X2 (SEQ ID NO:1)</u>, <u>wherein each of X1 independently represents Asp or Glu</u>, and X2 represents Gly or Ser.

24. (Canceled)

25. (Original) The method of claim 23, wherein the neuron is in the hippocampus.

26-44. (Canceled)

45. (Previously presented) The method of claim 23, wherein the agent is administered to the brain of the mammal.

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- 46. (Currently amended) A method of determining whether a patient is at risk for lupus-induced cognitive dysfunction, the method comprising determining whether the patient has anti-NR2 antibodies, wherein the presence of anti-NR2 antibodies indicates that the patient is at risk for lupus-induced cognitive dysfunction, and if the patient is at risk for lupus-induced cognitive dysfunction, treating the patient with an agent that prevents binding of an anti-NR2 antibody to an NR2 subunit of an N-methyl-D-aspartate (NMDA) receptor of a neuron, wherein the agent comprises amino acid sequence X1-Trp-X1-Tyr-X2 (SEQ ID NO:1), wherein each of X1 independently represents Asp or Glu, and X2 represents Gly or Ser.
- 47. (Previously presented) The method of claim 46, wherein the cerebrospinal fluid is tested for the presence of anti-NR2 antibodies.
- 48. (Currently amended) The method of claim 46, wherein the peripheral blood is tested for the presence of anti-NR2 antibodies.

49-50. (Canceled)

51. (Currently amended) The method of claim <u>46</u> 50, wherein the peptide or mimetic comprises Asp-Trp-Glu-Tyr-Ser (SEQ ID NO:1).

52-53. (Canceled)

54. (Withdrawn) The method of claim 23, wherein the agent comprises D-amino acids.

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<u>55</u>53. (Currently amended) The method of claim 23, wherein the agent comprises Asp-Trp-Glu-Tyr-Ser (SEQ ID NO:1).

- 56. (New) The method of claim 23, where the mammal is diagnosed as exhibiting lupus-induced cognitive dysfunction.
- 57. (New) The method of claim 23, where the mammal is diagnosed as being at risk for lupus-induced cognitive dysfunction.